

=> file reg

FILE 'REGISTRY' ENTERED AT 15:27:27 ON 27 MAY 2004
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STRUCTURE FILE UPDATES: 26 MAY 2004 HIGHEST RN 686262-86-2
DICTIONARY FILE UPDATES: 26 MAY 2004 HIGHEST RN 686262-86-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
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FILE 'HCAPLUS' ENTERED AT 15:27:31 ON 27 MAY 2004
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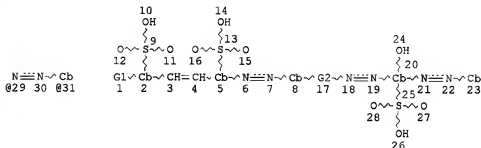
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FILE COVERS 1907 - 27 May 2004 VOL 140 ISS 22
FILE LAST UPDATED: 26 May 2004 (20040526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L29 STR



VAR G1=NO2/N
 REP G2=(0-1) 29-8 31-18
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 2
 GGCAT IS MCY UNS AT 5
 GGCAT IS MCY UNS AT 8
 GGCAT IS PCY UNS AT 20
 GGCAT IS MCY UNS AT 23
 GGCAT IS MCY UNS AT 31
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE
 L31 2 SEA FILE=REGISTRY SSS FUL L29
 L32 1 SEA FILE=HCAPLUS ABB=ON L31

=> d 132 all hitstr

L32 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:64273 HCAPLUS
 DN 134:132920
 ED Entered STN: 26 Jan 2001
 TI Manufacture of water-soluble polyazo dyes useful for poly(vinyl alcohol)-based polarizing films in liquid crystal projector green channels
 IN Oiso, Shoji; Ishii, Kumiko; Kajiwara, Yoshitaka; Tabei, Toru
 PA Nippon Kayaku Kabushiki Kaisha, Japan
 SO PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM G02B005-30
 ICS G03B021-00; C09B031-20; C08L029-04
 CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 38, 73, 74
 FAN.CNT 1

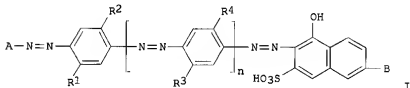
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

2 structures from this query

1 CA.-reference applicant

PI WO 2001006281 A1 20010125 WO 2000-JP4658 20000712
W: CA, CN, KR, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE
JP 2001027708 A2 20010130 JP 1999-200435 19990714
JP 2001033627 A2 20010209 JP 1999-211148 19990726
JP 2001056412 A2 20010227 JP 1999-234058 19990820
EP 1203969 A1 20020508 EP 2000-946278 20000712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY
PRAI JP 1999-200435 A 19990714
JP 1999-211148 A 19990726
JP 1999-234058 A 19990820
WO 2000-JP4658 W 20000712
OS MARPAT 134:132920
GI



AB The polyazo dyes having maximum absorption wave length 520-580 nm are compds. of AN:NX(N:N2)n:NYB type (when A = sulfonic acid-containing Ph, B = amino- or OH-containing benzamide; n = 1; when A = 4-[2'-(4''-amino(or nitro)-2''-sulfonatophenyl)ethenyl]-3-sulfonatophenyl group, B = optionally ring-substituted N:NPh group; n = 0, 1; X, Z = phenylene or substituted phenylene; Y = 2-hydroxy-8-sulfonatophthalene-1,5-diyl group).

ST polyazo dye polyvinyl alc polarizing film manuf; liq crystal projector green channel polarizing film manuf dye; copper complex polyazo dye manuf

IT Liquid crystal displays (color; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT Polarizing films (manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT Azo dyes (water-soluble, polyazo dyes; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 1325-54-8, C.I. Direct Orange 39 25188-42-5, C.I. Direct Red 81
RL: TEM (Technical or engineered material use); USES (Uses) (dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 9012-09-3, Fuji Tac FT-UV 80
RL: TEM (Technical or engineered material use); USES (Uses) (polarizing film coating; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 9002-89-5, Poly(vinyl alcohol)
 RL: DEV (Device component use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (polarizing film; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 87-02-5, J Acid 95-78-3, 2,5-Dimethylaniline 102-56-7, 2,5-Dimethoxyaniline 108-95-2, Phenol, reactions 119-72-2 119-77-7, p-Aminobenzoyl J Acid 120-71-8, p-Cresidine 121-57-3, Sulfanilic acid 2491-71-6, 4-Aminoazobenzene-4'-sodium sulfonate 80427-50-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant for polyazo dyes; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 321859-87-4P 321859-88-5P **321859-89-6P 321859-90-9P**
 321859-91-0P 321864-83-9P 321864-85-1P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (triazole dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

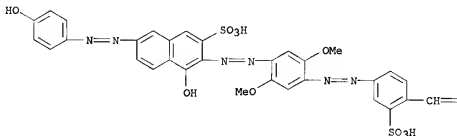
RE
 (1) Nippon Kayaku Co Limited; JP 378703 A 1991
 (2) Nippon Kayaku Co Limited; JP 11125815 A 1999
 (3) Nippon Kayaku Co Limited; JP 11218610 A 1999 HCAPLUS
 (4) Sumitomo Chemical Company Limited; JP 10259311 A 1998 HCAPLUS

IT **321859-89-6P 321859-90-9P**
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (triazole dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

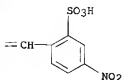
RN 321859-89-6 HCAPLUS

CN 2-Naphthalenesulfonic acid, 3-[[[2,5-dimethoxy-4-[[[4-[2-(4-nitro-2-sulphophenyl)ethenyl]-3-sulphophenyl]azo]phenyl]azo]-4-hydroxy-7-[(4-hydroxyphenyl)azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

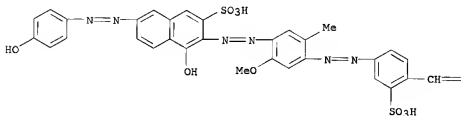


PAGE 1-B

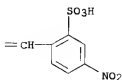


RN 321859-90-9 HCAPLUS
 CN 2-Naphthalenesulfonic acid, 4-hydroxy-7-[(4-hydroxyphenyl)azo]-3-[[2-methoxy-5-methyl-4-[[4-[2-(4-nitro-2-sulfophenyl)ethenyl]-3-sulfophenyl]azo]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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	Type	Hits	Search Text	DBs
1	BRS	2	"11218610"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
2	BRS	1	"11125815"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
3	BRS	3	"05295281"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
4	BRS	6	"01313568"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
5	BRS	0	"631898803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
6	BRS	2	"63189803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
7	BRS	91	"40259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63189803" or 60-156759 or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
8	BRS	1261	green near channel	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Type	Hits	Search Text	DBs
9	BRS	157	lcd and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
10	BRS	95	polarizing and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
11	BRS	0	green near channel) same(azo same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
12	BRS	0	green near channel same azo same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
13	BRS	71	(polarizing or polarizer) and (green near channel) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
14	BRS	0	((polarizing or polarizer) and (green near channel) and lcd) and (azo same dye)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
15	BRS	0	((polarizing or polarizer) and (green near channel) and lcd) and azo	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
16	BRS	586	((polarizing or polarizer) same (green same filter)) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
17	BRS	229	azo same dye same (polarizing or polarizer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Type	Hits	Search Text	DBs
18	BRS	10490	polyvinylalcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
19	BRS	133857	polyvinyl near alcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
20	BRS	95164	polarizing or polarizer	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
21	BRS	23456	azo near dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
22	BRS	140236	polyvinylalcohol or (polyvinyl near alcohol)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
23	BRS	304	(azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
24	BRS	0	((((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol)))) same (polarizing or polarizer)) and lcd) and green	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
25	BRS	3	"10259311"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
26	BRS	16	"378703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Type	Hits	Search Text	DBs
27	BRS	4	"03078703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
28	BRS	2	"09132726"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
29	BRS	4	"63-189803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
30	BRS	8	"03012606"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
31	BRS	5	"60168743"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
32	BRS	11	60-168743	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
33	BRS	5	"59145255"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
34	BRS	10	59-145255	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
35	BRS	2	"60156759"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Type	Hits	Search Text	DBs
36	BRS	10	60-156759	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
37	BRS	15	("10259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63189803" or 60-156759 or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606") and green	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
38	BRS	17	("10259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63189803" or 60-156759 or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606") and red	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
39	BRS	105	polarizer and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
40	BRS	84	(green near channel) same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
41	BRS	19	"3078703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
42	BRS	1	"5659020".PN.	USPAT
43	BRS	1	"5700296".PN.	USPAT

	Type	Hits	Search Text	DBs
44	BRS	1	((green near channel) same dye) same polarizer	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
45	BRS	6	((green near channel) same dye) and (azo near dye)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
46	BRS	4	((green near channel) same dye) same polarizing	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
47	BRS	12	((polarizing or polarizer) and (green near channel) and lcd) and dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
48	BRS	19	((polarizing or polarizer) same (green same filter)) and lcd) and (azo same dye)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
49	BRS	45	(azo same dye same (polarizing or polarizer)) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
50	BRS	21	((azo same dye same (polarizing or polarizer)) and lcd) and green	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
51	BRS	46	((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))) same (polarizing or polarizer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
52	BRS	9	((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))) same (polarizing or polarizer)) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: SOW-FUN HON Examiner #: 77463 Date: 05/26/04
 Art Unit: 1772 Phone Number 302-1492 Serial Number: 10018, 857
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: DYE TYPE POLARIZING PLATE
 Inventors (please provide full names): SHOTI USO, KUMIKO ISHII,
YOSHITAKA KAJIWARA, TORU TABEI
 Earliest Priority Filing Date: 07/14/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

PLEASE SEARCH CLAIM 1.
 - THANKS!

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>H. F. Allen</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone # _____	AA Sequence (#) _____	Dialog _____
Searcher Location _____	Structure (#) <u>2</u>	Quest/Orbn _____
Date Searcher Picked Up _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>5/27/04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>20</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time _____	Patent Family _____	WWW/Internet _____
Online Time: <u>28</u>	Other _____	Other (specify) _____